

WHAT IS CLAIMED IS:

1. A portable electrocardiograph comprising:

a stacked-layered circuit board;

5 an electrocardiogram measurement device that measures an electrocardiogram to obtain electrocardiogram data; and

a radio communication device that radio-transmits the electrocardiogram data obtained by said electrocardiogram measurement device in real time, wherein

10 said stacked-layered circuit board includes a plurality of circuit boards and a ground conductor layer provided between any ones of said plurality of circuit boards,

said electrocardiogram measurement device is arranged on one side of said stacked-layered circuit board, and said
15 radio communication device is arranged on the other side of said stacked-layered circuit board.

2. The portable electrocardiograph according to claim 1, further comprising a casing that houses said
20 electrocardiogram measurement device, said radio communication device, and said stacked-layered circuit board.

3. The portable electrocardiograph according to claim 1, further comprising a first storage device that stores the
25 electrocardiogram data obtained by said electrocardiogram

measurement device.

4. The portable electrocardiograph according to claim
1, further comprising an accelerometer that measures
5 acceleration to obtain acceleration data, wherein

said radio communication device radio-transmits the
acceleration data obtained by said accelerometer in real time.

5. The portable electrocardiograph according to claim
10 4, further comprising a second storage device that stores the
acceleration data obtained by said accelerometer.

6. The portable electrocardiograph according to claim
1, wherein said radio communication device receives a given
15 alarm signal,

the portable electrocardiograph further comprising an
alarm sound output device that outputs an alarm sound in
response to the alarm signal received by said radio
communication device.

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7. The portable electrocardiograph according to claim
1, wherein said radio communication device receives a given
alarm signal,

the portable electrocardiograph further comprising an
25 alarm display device that displays an alarm in response to the

alarm signal received by said radio communication device.

8. An electrocardiogram monitoring system comprising:

a portable electrocardiograph housing an
5 electrocardiogram measurement device that measures an
electrocardiogram to obtain electrocardiogram data and a
communication device that radio-transmits the
electrocardiogram data obtained by said electrocardiogram
measurement device in real time; and

10 a computer that receives the electrocardiogram data
transmitted from said portable electrocardiograph and has a
display unit that displays the received electrocardiogram
data.

15 9. The electrocardiogram monitoring system according to
claim 8, wherein said portable electrocardiograph further
houses a storage device that stores the electrocardiogram data
obtained by said electrocardiogram measurement device.

20 10. The electrocardiogram monitoring system according
to claim 8, wherein

said communication device is a radio communication
device that radio-transmits the electrocardiogram data to a
base station connected to a public network, and

25 said computer includes a communication equipment that

receives the electrocardiogram data transmitted from said base station via the public network.

11. The electrocardiogram monitoring system according
5 to claim 10, wherein said communication equipment receives the electrocardiogram data transmitted from said base station via the public network via a line.

12. The electrocardiogram monitoring system according
10 to claim 10, wherein said communication equipment receives by radio communication the electrocardiogram data transmitted from said base station to other base station via the public network.

13. The electrocardiogram monitoring system according
15 to claim 10, wherein said communication equipment receives the electrocardiogram data transmitted from said base station via the public network by way of Internet.

14. The electrocardiogram monitoring system according
20 to claim 8, wherein said communication device is a radio communication device that radio-transmits the electrocardiogram data to a base station connected to a private network, and

25 said computer receives the electrocardiogram data

transmitted from said base station via the private network.

15. The electrocardiogram monitoring system according to claim 8, wherein said computer has a function of transmitting
5 a signal to said portable electrocardiograph,

said communication device in said portable electrocardiograph receives the signal transmitted from said computer, and

said portable electrocardiograph further includes an
10 alarm output unit that outputs an alarm based on the signal received by said communication device.

16. The electrocardiogram monitoring system according to claim 8, wherein said portable electrocardiograph comprises
15 a stacked-layered circuit board and has a casing that houses said electrocardiogram measurement device, said communication device, and said stacked-layered circuit board,

said stacked-layered circuit board includes a plurality of circuit boards and a ground conductor layer provided between
20 any ones of said plurality of circuit boards, and

said electrocardiogram measurement device is arranged on one side of said stacked-layered circuit board, and said communication device is arranged on the other side of said stacked-layered circuit board.

17. The electrocardiogram monitoring system according to claim 8, wherein said portable electrocardiograph further houses an acceleration measurement device that measures acceleration to obtain acceleration data,

5 said communication device radio-transmits the acceleration data obtained by said acceleration measurement device in real time, said computer receives the acceleration data transmitted from said portable electrocardiograph to display the acceleration on said display unit based on the
10 received acceleration data.

18. An electrocardiogram monitoring method comprising the steps of:

 operating a portable electrocardiograph housing an
15 electrocardiogram measurement device and a communication device;

 measuring an electrocardiogram with said electrocardiogram measurement device to obtain electrocardiogram data;

20 radio-transmitting the electrocardiogram data obtained by said electrocardiogram measurement device through said communication device in real time; and

 receiving the electrocardiogram data transmitted from said portable electrocardiograph by a computer to display the
25 electrocardiogram on a display unit based on the received

electrocardiogram data.